



2015-2016: A-16 National Geospatial Data Asset (NGDA) Portfolio Summary Report

Federal Geographic Data Committee (FGDC)

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2015 A–16 National Geospatial Data Asset (NGDA) Portfolio Summary Report

Overview

This Portfolio Summary Report brings together information about each National Geospatial Data Asset (NGDA) Dataset and Theme to aggregate the results of the lifecycle maturity assessment and other information, which supports the effort to improve the quality and value of the NGDA Datasets in the national geospatial portfolio.

The Office of Management and Budget (OMB) Circular A–16, “Coordination of Geographic Information and Related Spatial Data Activities”¹, provides guidance on improved national coordination and use of spatial data. In 2010, OMB Circular A–16 *Supplemental Guidance (Supplemental Guidance)*² prescribes a “portfolio management” approach and outlines steps for instituting the portfolio management process. Portfolio management is the process of tracking, maintaining, expanding, and aligning assets to address and solve the business needs of an enterprise. At a national level, this approach is intended to overcome the single agency, stovepipe model by applying consistent policy, improved organization, better governance, and public engagement to deliver outstanding results.

The 2014-2016 National Geospatial Data Asset Management Plan (NGDA MP)³ was developed to implement OMB Circular A–16 *Supplemental Guidance* to successfully manage the A–16 portfolio. The NGDA MP provides the foundation for a portfolio management approach for a National Geospatial Data Asset (NGDA) Portfolio comprised of National Geospatial Data Asset Themes (NGDA Themes) and their associated National Geospatial Data Asset Datasets (NGDA Datasets). The NGDA Datasets represent a foundational component of the nation’s spatial data infrastructure and the core set of digital spatial data for users of geospatial information. The NGDA MP consists of two parts. The first involves establishing a framework consisting of tools and templates to manage different aspects of the NGDA portfolio. The second is for each NGDA Theme Lead and NGDA Dataset Manager to use the developed framework tools and templates to report status and progress of NGDA Themes and NGDA Datasets. Those reports become part of tracking the overall status and progress of the NGDA Portfolio. An evaluation of the 2014-2016 National Geospatial Data Asset Management Plan (NGDA MP), completed in 2016, determined the success of implementing the framework and evaluated the reporting to provide future guidance to the NGDA Portfolio management process.

Each NGDA Theme consists of a related group of NGDA Datasets selected from a larger, constantly changing universe of geospatial datasets because they meet the inclusion criteria for the NGDA Theme. NGDA Datasets are selected by the NGDA Theme Lead, recommended for inclusion by the FGDC Coordination Group, and approved for inclusion by the FGDC Steering Committee. As part of NGDA Portfolio Management, the A–16 *Supplemental Guidance* calls for NGDA Dataset Managers to evaluate their NGDA Dataset(s) against the Geospatial Data Lifecycle stages in a data Lifecycle Maturity

¹ [OMB Circular A–16 \(Revised, August 19 2002\)](#)

² [OMB Circular A–16 Supplemental Guidance](#)

³ [2014-2016 National Geospatial Data Asset Management Plan \(NGDA MP\)](#)

Assessment (LMA) process and report on their maturity and status. NGDA Dataset Managers submit a NGDA Dataset Report to their relevant NGDA Theme Leads and assist with incorporation of that information into a comprehensive annual NGDA Theme Report. The *Supplemental Guidance* defines the roles and responsibilities required to implement NGDA Portfolio Management.

The initial baseline 2015 LMA included 177 NGDA Datasets organized into 16 NGDA Themes and can be found in Appendix A: NGDA Portfolio Summary by Theme. Each NGDA Dataset was measured for maturity as described by Section 8 of the *A-16 Supplemental Guidance*. NGDA lifecycle maturity was measured by asking questions of NGDA Dataset Managers that related to each of the seven lifecycle stages plus a general questions section that related to all stages. Based on an aggregation of the question responses within each stage an overall maturity score was calculated for each NGDA.

A-16 NGDA Portfolio

The A-16 NGDA Portfolio is a group of NGDA Themes, which is comprised of related NGDA Datasets. These NGDA Datasets are selected based on meeting one or more of the following criteria: 1) used by multiple agencies or with agency partners such as Tribal, State, and local governments; 2) needed for Presidential priorities as expressed by OMB; 3) required to meet shared mission goals of multiple Federal agencies; or 4) expressly required by statutory mandate. Figure 1 represents the 17 Themes and their associated number of NGDA Datasets.⁴

Themes providing the core (most commonly used) set of base geospatial data designated as “Framework Themes” are identified in yellow.

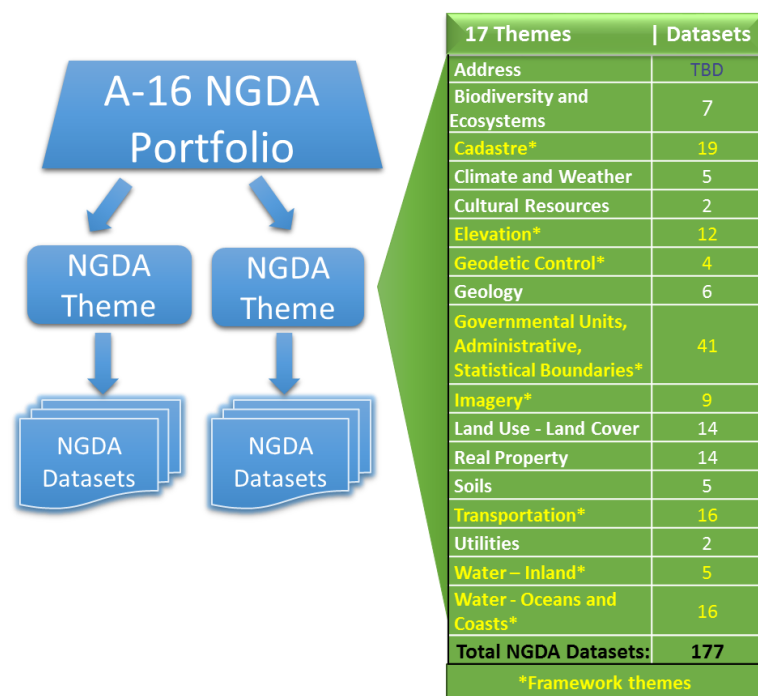


Figure 1. 17 NGDA Theme and associated NGDA Datasets

A-16 NGDA Lifecycle Maturity Assessment Overview

The A-16 NGDA Lifecycle Maturity Assessment (NGDA LMA) is designed to be a recurring process that takes into account changing business requirements. Periodic re-assessments will provide insight into

⁴ Note that the Address Theme was approved by the FGDC Steering Committee in August 2016 and was not included in the baseline 2015 assessment. The Theme previously known as “Biota” was renamed “Biodiversity and Ecosystems” in 2016.

maturity trends. The maturity level is not a grade, but is a continuous evolution indicating how the NGDA is meeting changing business requirements. The NGDA LMA is composed of questions related to seven geospatial data lifecycle stages⁵ (Figure 2 below), and three general overarching questions pertaining to all stages.



Figure 2. Geospatial Data Lifecycle Stages.

Within each assessment question, there are benchmarks that relate to performance activities. The benchmarks represent federal policies, actions, criteria or guidelines necessary to be considered mature. The activities represent examples of how the respondents achieved the benchmark. Each question has a range of activities, from no activity to significant activity, which provides an interpretation of maturity for the benchmark. No activity is a lower maturity level, while significant activity is consider the highest maturity level.

A total of 19 questions were asked of NGDA Dataset Managers with one question having two parts. In addition to the stage-based questions detailed below, two optional general administrative questions were asked to A) determine the effort required to complete the assessment and to B) request recommendations for improving future assessments. The 2015 NGDA Lifecycle Maturity Assessment stage and question breakdown follows:

General Questions for All Stages

- 1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?
- 2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

⁵ [Stages of the Geospatial Data Lifecycle pursuant to OMB Circular A-16 Sections 8\(e\)\(d\), 8\(e\)\(f\), and 8\(e\)\(g\)](#)

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

Stage 1 – Define/Plan

- 4) Are user and business requirements defined and formalized?
- 5) How are partners/stakeholders involved in the requirements collection process?
- 6) Is there a quality assurance process for the dataset?
- 7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?
- 8) Are defined data standards used in collecting, processing, and/or rendering the data?

Stage 2 – Inventory/Evaluate

- 9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

Stage 3 – Obtain

- 10) Is there a process for obtaining data in relation to this dataset?
- 11) Is the metadata in a FGDC-endorsed geospatial metadata standard?
- 12) Part 1: How complete is the geographic coverage as defined in the requirements for the dataset?
- 12) Part 2: is regarding the completeness of the geographic extent as determined by the business requirements.

Stage 4 – Access

- 13) Do you have a process for providing users access to the data in an open digital machine-readable format?

Stage 5 – Maintain

- 14) Is there a maintenance process for updating and storing the dataset?
- 15) Is there an error correction process as part of dataset maintenance?

Stage 6 – Use/Evaluate

- 16) Is there a process to determine if the dataset meets user needs?
- 17) Is there a process to provide users information on how to access and properly use the dataset?
- 18) Are the business processes and management practices assessed to meet changing technology?

Stage 7 – Archive

- 19) Is there an archiving process for the dataset?

After the NGDA LMA is completed, the stage and overall maturity level is calculated for that dataset. Figure 3 below indicates the 5 levels of maturity and their associated characteristics.

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

Figure 3. Five maturity levels and characteristics.

2015 A–16 NGDA Maturity Results

For the 2015 Lifecycle Maturity Assessment, the overall results are shown in Figure 4.

Based on the responses for each of the 177 NGDA Datasets, 121 NGDA or 68% have an overall optimized established maturity level, 33 NGDA or 19 % are mature and consistent, 13 NGDA or 7% are at the managed, predictable level, 8 NGDA or 4% are in transition, transformation, and 2 NGDA or 1% are at the planned, initial development level.

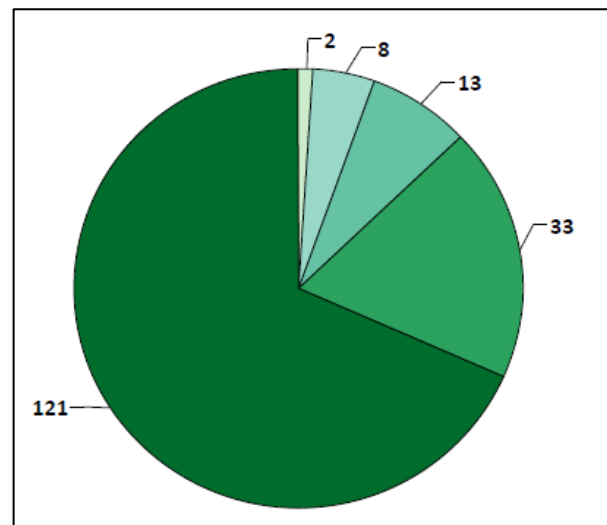
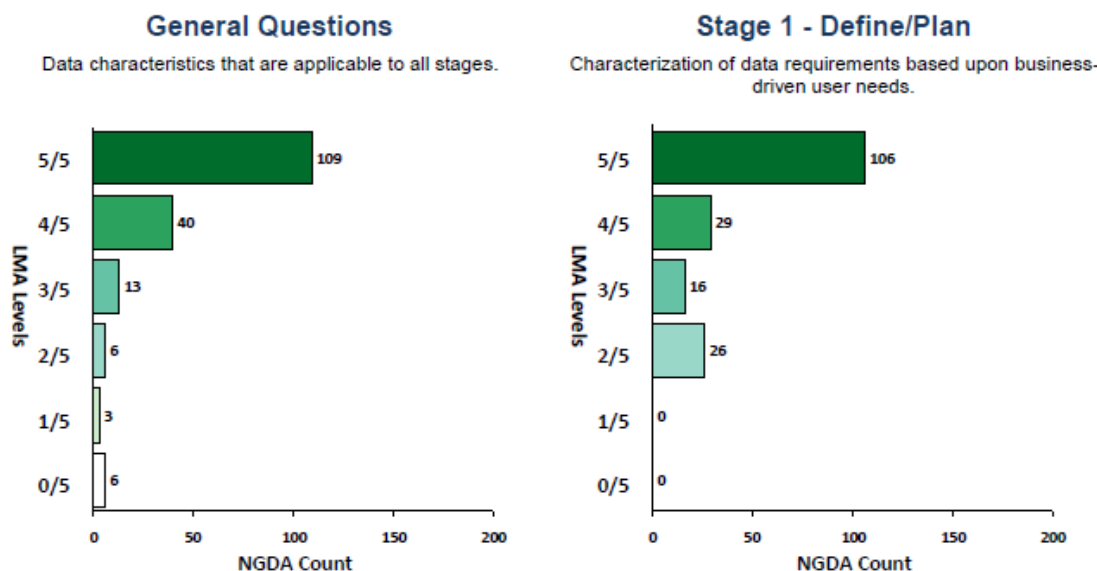


Figure 4. Overall 2015 NGDA Dataset Maturity.

Lifecycle Stage Maturity Synopsis

Based on the responses to questions in each stage, stage-based maturity values and categories were developed. Figure 5 provides an example of the stage-based maturity categories aggregated across all NGDA for the general questions for all stages and Stage 1 – Define/Plan.



Key for NGDA Dataset Lifecycle Maturity Assessment Levels:

0/5 No Activity	2/5 Transition; Transformation	4/5 Mature; Consistent
1/5 Planned; Initial Development	3/5 Managed; Predictable	5/5 Optimized; Established

Figure 5. NGDA Maturity by General Questions and Lifecycle Stage 1 Define/Plan.

General Questions for All Stages consists of three questions applicable to all stages of the assessment. The questions within this stage relate to funding, open government and transparency guidelines, and staff training. These questions contribute to understanding of the day-to-day operation of the NGDA Datasets. Responses to Question One, which addresses NGDA funding, indicate the majority of NGDA or 68% have a recurring funding process in place. This is to be expected as these datasets are typically integral parts of agencies' mission requirements and workflows, and they have broad use across both private and public sectors. However, 50 NGDAs have limited funding or funding that is not adequate to support the NGDA throughout its lifecycle. Based on the justification comments, in most cases, the NGDAs have funding on a recurring basis but the respondent indicates it is not sufficient because of the extended refresh/evaluation cycle for new funding. For Question Two, related to open government and transparency guidelines, 77% of NGDAs have an open government process in place with transparency guidelines established. The majority have documentation is either completed, published, or being developed. This was an expected result since NGDA meet the OMB A-16 *Supplemental Guidance*. Question Three relates to staff training, and 66% of NGDAs have processes and tools in place to ensure staff are sufficiently knowledgeable to support the NGDA through its lifecycle. Based on the justification comments, NGDA personnel are well-trained and supported, and turnover is minimal.

In Stage 1 – Define/Plan, the question was asked relating to partner/stakeholder involvement to determine if there was a broad cross-section of interests included so that data obtained met a broad cross-section of business requirements (How are partners/stakeholders involved in the requirements collection process?). The majority of responses indicated a recurring process is in place for involving partners/stakeholders in the dataset collection process. The 124 NGDAs (76%) indicated they are involving partners and stakeholders in the requirements collection process required additional analysis. For the respondents who selected the “no involvement” answer option for eight NGDAs, some reasons cited were that the NGDA is a static dataset or the data is created from observation.

Figure 6 represents NGDA Maturity by Stage 2 – Inventory/Evaluate and Stage 3 – Obtain. These two stages look at existing data and obtaining data.

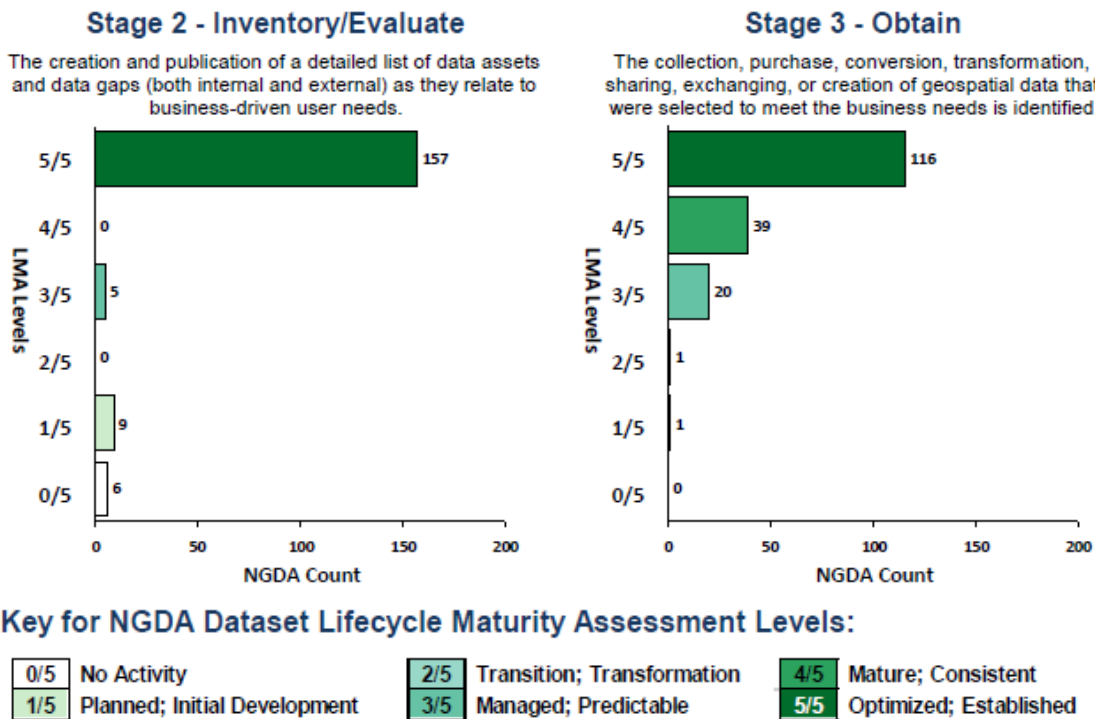


Figure 6. NGDA Maturity by Stage 2 – Inventory/Evaluate and Stage 3 – Obtain.

Stage 2 – Inventory/Evaluate looks to determine if data already exist to reduce redundant data collection (Is there a process for determining if data necessary to meet requirements already exist from other sources, either within or outside the agency, before collecting or acquiring new data?) and Stage 3 – Obtain looks to determine the most efficient and cost effective method for obtaining data (Is there a process for obtaining data in relation to this dataset?).

In the first case, the majority of the responses indicated processes are fully implemented to determine whether data exists to meet requirements before collecting or acquiring new data. Most respondents provided business practices that support efforts to reuse data and reduce duplication. Some respondents indicated the dataset is unique and created solely by the responsible agency. There are 19

NGDAs out of the 177 that have not yet fully developed and implemented a process to determine if data exists elsewhere.

In the second case, the majority of respondents stated they have processes fully implemented for obtaining NGDA data. Business practices indicate a wide variety of use cases and data sources including agency-created, contractor-supported, partnerships, scraping data from other datasets, and volunteered geographic information. The Dataset Managers who indicated a process is under development also discuss an array of challenges. These include working across multiple agencies (federal, state, and local), the use of agreements, and the development of standard operating procedures. Of the NGDAs that do not have a process in place, most Dataset Managers obtain the data directly from the participating agency. One is a static dataset no longer requiring data collection.

Figure 7 represents NGDA Maturity by Stage 4 – Access and Stage 5 – Maintain. These two stages look at accessing and maintaining data.

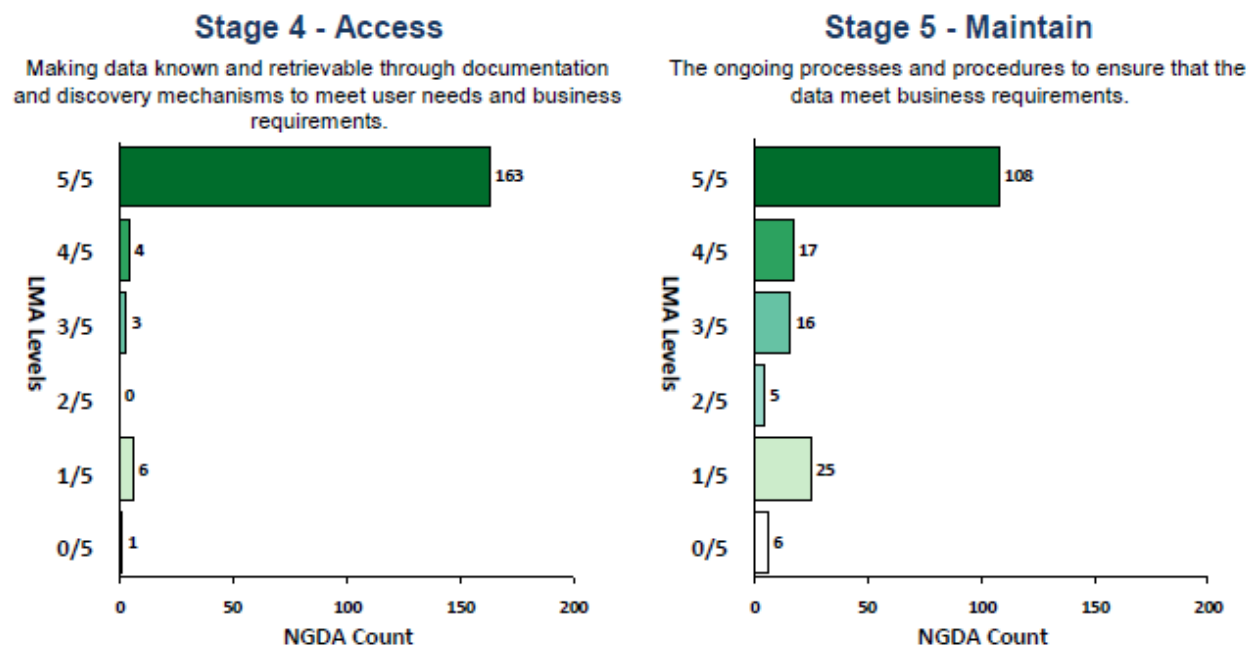


Figure 7. NGDA Maturity by Stage 4 – Access and Stage 5 – Maintain.

An important element of these two stages is determining if the data can be accessed. The question, “Do you have a process for providing users access to the data in an open digital machine-readable format?” looks at determining accessibility of the data to a broad range of users. The majority of the LMA responses indicate there is access to the NGDAs in “open digital machine readable” formats, however, a supplemental analysis also completed appears to be contradictory. This inconsistency is due to many

factors, but most notably the assessment did not clearly define the term “open digital machine-readable” accessibility as related to geospatial data. Further analysis in comparing responses to known open digital machine-readable standards yielded the recommendation to develop a list of clearly defined open digital machine-readable data and service formats to be articulated in future assessments, but also recognizing that some NGDA Datasets are accessed at the highest level as indicated by the business requirement. In 2016, a NGDA Web Services and Metadata Project started with coordination through the FGDC Secretariat and GeoPlatform team to ensure greater accessibility to NGDAs by encouraging Dataset Managers to develop web services and include those services and download links in searchable metadata on Data.gov and Geoplatform.gov.

Figure 8 represents NGDA Maturity by Stage 6 – Use/Evaluate and Stage 7 – Archive asked questions to determine if NGDA data is being utilized and archived properly.

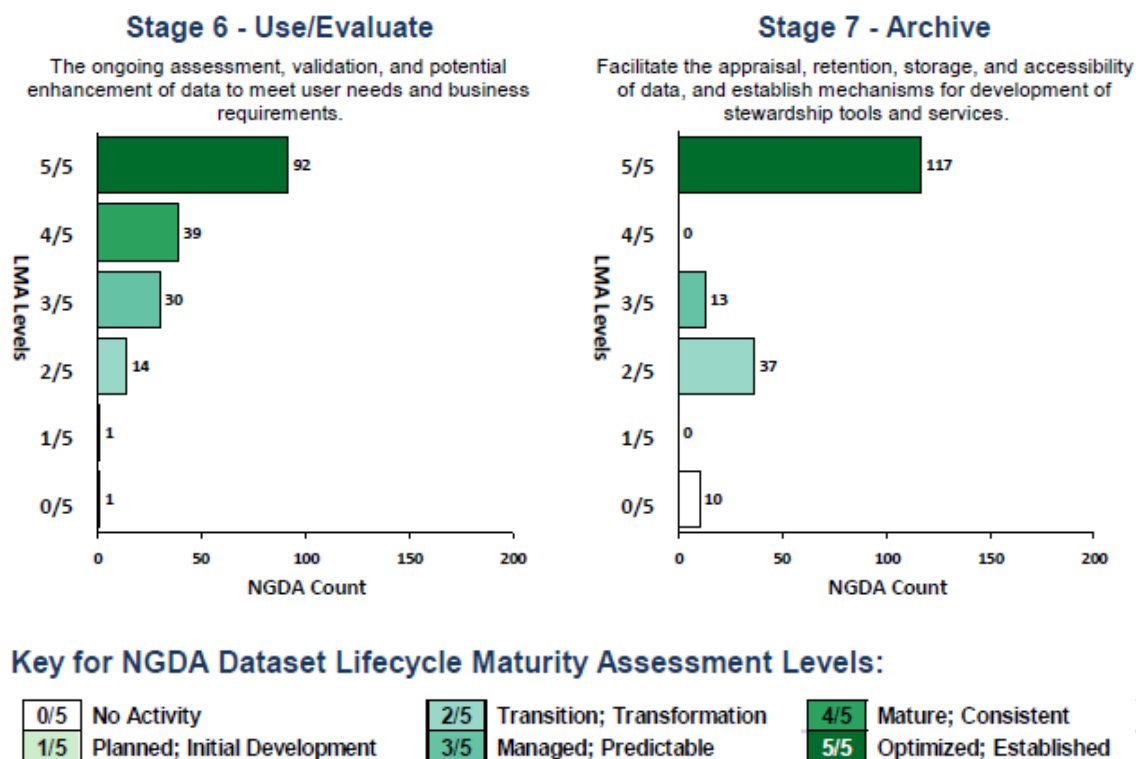


Figure 8. NGDA Maturity by Stage 6 – Use/Evaluate and Stage 7 – Archive.

Throughout Stage 6 – Use/Evaluate, the respondents indicated a high maturity was attained for this stage. Almost 95% of the respondents indicated that information on how to access and properly use the dataset was being provided to the users. The business practices being used by these respondents are wide ranging and depend heavily on stewardship, communities of interest, coordination, standards teams, formal agreements, annual reports, outreach, formal feedback methods, interactive feedback, etc. Respondents who indicated a process is being developed discuss the need to consult with others, develop stewardship and collaborative communities, remap projects to improve upon the dataset, and conduct outreach to the user community using multiple methods (e.g., workshops, membership, calls for assistance, etc.). Finally, many of the NGDA respondents indicated a high maturity level with respect

to changing technology. Out of 177 NGDAs, respondents indicated that 64% of NGDAs have processes and practices to assess changing technology and provided numerous business practices on how this is accomplished.

In Stage 7 archiving, 113 NGDA or 65% show the highest level of maturity for archiving processes. 50 NGDA or 28% are developing or are in the early stages of having an archival process in place. These archival processes included a variety of methods such as electronic records. Many NGDAs are archived at National Archives and Records Administration (NARA) and some are at other approved archive facilities. A significant number of NGDAS have a data archiving process based on the internal data back-up processes using media (tape, CD, electronic, or paper).

Portfolio Summary by Theme


Appendix A: NGDA Portfolio Summary by Theme provides a detailed list of each NGDA Dataset maturity by the 16 NGDA Themes that were included as part of the 2015 Lifecycle Maturity Assessment.

Conclusion

Many significant achievements have occurred in advancing the A–16 NGDA Portfolio including meeting the National Spatial Data Infrastructure (NSDI) Strategic Plan 2014-2016⁶ objective 2.1. to advance the portfolio management process for National Geospatial Data Assets (NGDA) and meeting the objectives outlined in the 2014-2016 National Geospatial Data Asset Management Plan (NGDA MP). See Appendix B: Status and Outcomes Summary of NGDA Management Plan Objectives for additional details. These activities include:

- Established the process for adding, and changing individuals in the NGDA roles for Executive Champions, Theme Leads, and Dataset Managers as well as identified these representatives,
- Identified the baseline of 177 NGDA Datasets based on the criteria outlined in the A–16 *Supplemental Guidance*. This was achieved by through collaboration among agencies, Theme Leads, Dataset Managers, and stakeholders,
- Registered metadata for the NGDA Datasets with NGDA keywords through the Data.gov/Geoplatform.gov shared catalog. Registering the initial A–16 NGDA Portfolio inventory metadata increased NGDA discoverability and accessibility utilizing GeoPlatform.gov and other search engines,
- Completed the 2015 Lifecycle Maturity Assessment (LMA) process to determine overall maturity of each NGDA,
- Produced A–16 NGDA Portfolio Management reports to inform the NGDA and federal agencies about the A–16 NGDA portfolio. This includes a list of each NGDA in the portfolio with links to metadata and reports, NGDA Dataset Reports, and Theme Summary Reports,
- Developed Theme Strategic Plans to identify goals and objectives for the A–16 NGDA Themes and initiated a Theme Implementation Plan template to outline specific activities, and
- Established the process for nominating, registering, accessing, and retiring NGDA Datasets, and supporting A–16 NGDA Portfolio Management and its inventory.

⁶ [National Spatial Data Infrastructure \(NSDI\) Strategic Plan 2014-2016](#)



These objectives were supported through establishing a communication approach to facilitate discussion and approval for these processes and accomplishments. The NGDA Theme Leads and Dataset Managers have been critical in the success of establishing the foundation for A-16 NGDA Portfolio management. The Geospatial Platform tools have also provided a collaborative environment where the NGDA community stakeholders can share best practices and coordinate planned geospatial acquisitions, and a location where end users can access NGDA information. This has been accomplished through GeoPlatform.gov with the NGDA search capability, A-16 Theme Communities, an NGDA LMA Community, an NGDA Collaboration Community, and the GeoPlatform Marketplace. The FGDC website (FGDC.gov) also informs stakeholders and end users with information about current NGDA, Theme Leads, and Executive Champions.

An important aspect of geospatial portfolio management is the ability to use the same terminology for geospatial investments. The NGDA MP called for standardizing federal geospatial investment definitions to facilitate agency reporting on budgeted geospatial data investments, and for budget planning and execution. A working group of federal interagency stakeholders developed these standardized definitions for geospatial investments. The result is the *Geospatial Investment Definitions for Tracking and Reporting Geospatial Investment Costs* (April 2016)⁷ document. This provides a foundation for future discussions on geospatial investment budgeting.


A majority of the NGDA Datasets were determined to be well optimized/established, mature/consistent, and managed/predictable. This is to be expected of geospatial data assets that rise to the level of NGDA that play a vital role in providing valuable end user data to enable business- and mission-critical decisions. These and future NGDA will be monitored in periodic assessments to ensure that the level of support these NGDA currently receive continues so these crucial geospatial data assets continue to serve the Nation. For those NGDA Datasets at a lower level of maturity, additional attention is needed over the long term. For NGDA Datasets as a whole, the needs identified and reported on what would maintain or improve overall maturity fell into the following three broad categories.

Resources and Funding: NGDA investment support and A-16 NGDA Portfolio Management compliance support were identified as important in this process. Resources help keep NGDA Datasets current with evolving business requirements and technologies. These include improving NGDA data quality as well as making NGDA Datasets more accessible. For example, the feedback received about NGDA Datasets that scored lower maturity levels predominately centered on resource availability involving either funding or personnel, or both. These NGDA can benefit from additional guidance and support to foster an increase in their maturity.

In addition, resource support tools that alleviate workloads in NGDA policy and portfolio reporting requirements are also desired. These ranged from tools to input reporting information to visualization tools, like the NGDA LMA Dashboard that provides an overview of the A-16 NGDA Portfolio to a large audience.

Portfolio Management Process: Further enhancement and automation of existing and planned portfolio management tools would increase efficiency, reduce the workload for NGDA management personnel,

⁷ [Geospatial Investment Definitions for Tracking and Reporting Geospatial Investment Costs \(April 2016\)](#)



and reduce the workload as additional NGDA Datasets are added to the portfolio. Human resources also need to be better aligned to support portfolio management compliance processes. This includes the evolving collaboration required across agencies to more efficiently share and acquire NGDA data. Additionally, the benefits of adding new NGDA Datasets to the portfolio needs to be emphasized as other nationally significant NGDA Datasets are identified.

In a few instances, the 2015 Lifecycle Maturity Assessment should have considered some of the unique aspects of certain NGDA Datasets. Future assessments will strive to improve this component to more accurately reflect their maturity. In retrospect, NGDA Datasets that still provide significant information but were developed in previous years and no longer require updating were not fully characterized as such in the 2015 LMA.

Communication: The ability to reach out to expanded audiences, including senior agency leadership and other key decision makers is also important. Additional communication materials were requested related to A-16 Portfolio Management processes, best practices, and benefits, including presentations and written materials. Training materials and opportunities, including development of additional tutorials, web-based and in-person training sessions was cited as crucial, especially for newly-assigned Dataset Manager and Theme Lead personnel. Materials that support interagency communications to leverage best practices and geospatial investments are also important. Increased intra-agency communication was also viewed as important to increase the understanding of NGDA within organizations responsible for maintaining those NGDA Datasets.

Overall, the 2015 NGDA Portfolio has made significant strides to meet the requirements set forth in OMB Circular A-16 *Supplemental Guidance*. Several of the recommendations have been incorporated into the planning going forward. The 2017 Lifecycle Maturity Assessment will further our understanding of individual NGDA maturity and as a result, more accurately reflect the NGDA Portfolio's overall maturity and changes over time. The progress made to date provides a solid foundation for A-16 NGDA Portfolio management in the future and will be a critical component as the National Spatial Data Infrastructure Strategic Framework⁸ is implemented and the next NSDI Strategic Plan developed.

⁸ [National Spatial Data Infrastructure Strategic Framework \(December 2016\)](#)

Appendix A: NGDA Portfolio Summary by Theme

Note: These Theme Graphics reflect the results in the [LMA Performance Dashboard](#) (Geoplatform.gov login required)

Biota Theme

Changed to Biodiversity and Ecosystems Theme in 2016

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	4/5	4/5	4/5	3/5	3/5	3/5	3/5	4/5		
Bailey's Ecoregions And Subregions Of The United States, Puerto Rico, And The U.S. Virgin Islands - Direct Download	5/5	2/5	5/5	5/5	4/5	5/5	2/5	5/5	4/5	Biodiversity and Ecosystems	USDA-USFS
Environmental Sensitivity Index (ESI) Data Viewer and REST Services for Atlases	3/5	5/5	3/5	3/5	1/5	2/5	2/5	2/5	3/5	Biodiversity and Ecosystems	DOC-NOAA
FWS Critical Habitat for Threatened and Endangered Species Dataset	3/5	4/5	5/5	5/5	5/5	5/5	4/5	5/5	4/5	Biodiversity and Ecosystems	DOI-FWS
Omerik's Level III Ecoregions Of The Conterminous United States	4/5	4/5	1/5	3/5	1/5	2/5	3/5	2/5	4/5	Biodiversity and Ecosystems	USEPA
Terrestrial Ecosystems of the Conterminous United States	4/5	4/5	5/5	4/5	5/5	2/5	3/5	5/5	4/5	Biodiversity and Ecosystems	DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Distribution Models	4/5	4/5	5/5	3/5	4/5	1/5	4/5	2/5	4/5	Biodiversity and Ecosystems	DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Ranges	4/5	4/5	5/5	3/5	4/5	1/5	4/5	2/5	4/5	Biodiversity and Ecosystems	DOI-USGS

Cadastre Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	3/5	5/5	4/5	4/5	2/5	3/5	3/5	3/5		
Army Military Land Tracts (AMLT)	1/5	3/5	3/5	3/5	0/5	2/5	4/5	5/5	2/5	Cadastre	DOD-USACE
BIA Indian Lands Dataset (Indian Lands of the United States)	1/5	2/5	1/5	3/5	1/5	1/5	1/5	2/5	2/5	Cadastre	DOI-BIA
BLM National Surface Management Agency: Area Polygons, Withdrawal Area Polygons, and Special Public Purpose Withdrawal Area Polygons	5/5	3/5	5/5	4/5	5/5	5/5	3/5	5/5	4/5	Cadastre	DOI-BLM
Department of Defense Land Parcels and Sites	3/5	3/5	5/5	0/5	3/5	1/5	2/5	2/5	2/5	Cadastre	DOD-ATL
FS National Forest Dataset (US Forest Service Proclaimed Forests)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Cadastre	USDA-USFS
FWSInterest	3/5	2/5	1/5	5/5	5/5	3/5	2/5	2/5	3/5	Cadastre	DOI-FWS
NPS National Parks Dataset	5/5	4/5	5/5	5/5	5/5	4/5	4/5	5/5	5/5	Cadastre	DOI-NPS
Outer Continental Shelf Active Renewable Energy Leases	4/5	5/5	5/5	4/5	5/5	0/5	2/5	2/5	4/5	Cadastre	DOI-BOEM
Outer Continental Shelf Block Aliquots	4/5	4/5	5/5	4/5	5/5	0/5	0/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Lease Blocks - Alaska Region NAD83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Lease Blocks - Atlantic Region NAD83	4/5	2/5	5/5	4/5	4/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Lease Blocks - Pacific Region - West Coast NAD83	4/5	2/5	5/5	4/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Official Protraction Diagrams - Alaska Region NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Official Protraction Diagrams - Atlantic Region NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Official Protraction Diagrams - Pacific Region - West Coast NAD 83	4/5	2/5	5/5	4/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Outer Continental Shelf Official Protraction Diagrams And Lease Maps - Gulf Of Mexico Region NAD27	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Cadastre	DOI-BOEM
Protected Areas Database of the United States (PADUS) - Combined: Version 1.3	2/5	5/5	5/5	5/5	5/5	1/5	4/5	2/5	4/5	Cadastre	DOI-USGS
Public Land Survey System (PLSS) Dataset Catalog	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Cadastre	DOI-BLM

Climate and Weather Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	5/5	4/5	5/5	4/5	4/5	4/5	4/5	4/5		
Geostationary Operational Environmental Satellite (GOES) Imager Data	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Climate and Weather	DOC-NOAA
High-Resolution Sea Surface Temperature (SST) Analysis Products	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Climate and Weather	DOC-NOAA
NEXRAD (NEXt-Generation RADar) Products	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Climate and Weather	DOC-NOAA
Parameter- Elevation Regressions on Independent Slopes Model (PRISM) Dataset	0/5	3/5	1/5	4/5	1/5	1/5	2/5	0/5	3/5	Climate and Weather	USDA-NRCS
Polar-Orbiting Operational Environmental Satellites (POES) Radiometer Data	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Climate and Weather	DOC-NOAA

Cultural Resources Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	2/5	4/5	2/5	5/5	5/5	3/5	4/5	3/5	4/5		
Geographic Names Information System (GNIS)	4/5	4/5	3/5	5/5	5/5	5/5	5/5	5/5	5/5	Cultural Resources	DOI-USGS
National Register of Historic Places	1/5	3/5	1/5	5/5	5/5	1/5	2/5	0/5	3/5	Cultural Resources	DOI-NPS

Elevation Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	5/5	5/5	4/5	5/5	4/5	5/5	4/5	4/5		
1 meter Digital Elevation Models (DEMs) - USGS National Map	4/5	5/5	5/5	3/5	5/5	4/5	5/5	3/5	4/5	Elevation	DOI-USGS
1/3rd Arc-second Digital Elevation Models (DEMs) - USGS National Map	4/5	5/5	5/5	4/5	5/5	4/5	5/5	3/5	4/5	Elevation	DOI-USGS
5 meter Alaska Digital Elevation Models (DEMs) - USGS National Map	4/5	5/5	5/5	3/5	5/5	4/5	5/5	3/5	4/5	Elevation	DOI-USGS
Digital Elevation Models from NOAA/NGDC	4/5	4/5	5/5	5/5	5/5	3/5	5/5	5/5	4/5	Elevation	DOC-NOAA
Global Multi-Resolution Terrain Elevation Data - National Geospatial Data Asset (NGDA)	3/5	4/5	5/5	5/5	5/5	3/5	2/5	5/5	4/5	Elevation	DOI-USGS
Lidar Point Cloud - USGS National Map	4/5	5/5	5/5	3/5	5/5	4/5	5/5	3/5	4/5	Elevation	DOI-USGS
MultiBeam Bathymetric Data Base (MBBDB)	5/5	5/5	5/5	4/5	5/5	4/5	5/5	5/5	5/5	Elevation	DOC-NOAA
NGDC Marine Trackline Geophysics Database	5/5	5/5	5/5	4/5	5/5	5/5	4/5	5/5	5/5	Elevation	DOC-NOAA
NOS Hydrographic Surveys Collection	5/5	5/5	5/5	3/5	5/5	5/5	5/5	5/5	4/5	Elevation	DOC-NOAA
National Flood Hazard Layer (NFHL)	4/5	4/5	5/5	4/5	5/5	5/5	4/5	3/5	4/5	Elevation	DHS-FEMA
Shuttle Radar Topography Mission (SRTM)	5/5	5/5	5/5	4/5	5/5	4/5	5/5	5/5	5/5	Elevation	DOI-USGS
U.S. Coastal Lidar Elevation Data - Including the Great Lakes and Territories, 1998 - present	5/5	5/5	5/5	4/5	5/5	5/5	4/5	5/5	5/5	Elevation	DOC-NOAA


Geodetic Control Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	5/5		
Airborne Gravity (GRAV-D)	4/5	5/5	5/5	4/5	5/5	4/5	4/5	3/5	4/5	Geodetic Control	DOC-NOAA
Continuously Operating Reference Stations (CORS)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Geodetic Control	DOC-NOAA
Geodetic Control Information on Passive Marks	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Geodetic Control	DOC-NOAA
Geoid Models	5/5	5/5	5/5	4/5	5/5	3/5	5/5	5/5	5/5	Geodetic Control	DOC-NOAA

Geology Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	4/5	4/5	4/5	4/5	4/5	4/5	2/5	4/5		
Federal Sand and Gravel Borrow Areas (Lease Areas)	1/5	2/5	1/5	3/5	1/5	1/5	3/5	2/5	2/5	Geology	DOI-BOEM
Outer Continental Shelf Oil and Natural Gas Wells - Pacific OCS Region NAD 83	4/5	5/5	5/5	5/5	5/5	5/5	4/5	0/5	5/5	Geology	DOI-BOEM
Outer Continental Shelf Oil and Natural Gas Wells- Alaska Region NAD 83	5/5	5/5	5/5	5/5	5/5	5/5	4/5	0/5	5/5	Geology	DOI-BOEM
Outer Continental Shelf Oil and Natural Gas Wells- Gulf of Mexico Region NAD 27	5/5	5/5	5/5	4/5	1/5	5/5	5/5	2/5	4/5	Geology	DOI-BSEE
Seismic Water Bottom Anomalies - Gulf of Mexico NAD27	3/5	2/5	5/5	5/5	5/5	4/5	4/5	5/5	4/5	Geology	DOI-BOEM
USGS National Geologic Map Database Collection	3/5	4/5	5/5	3/5	5/5	4/5	4/5	3/5	4/5	Geology	DOI-USGS

Governmental Units, and Administrative and Statistical Boundaries Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup 	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5		
114th Congressional District	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Census 5-digit ZIP Code Tabulation Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Census Population & Housing Unit Counts	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Census Public Use Microdata Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Census Urban Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Census Voting District	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
2010 Urban Growth Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Alaska Native Regional Corporation (ANRC)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
American Indian Tribal Subdivision	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
American Indian/Alaska Native/Native Hawaiian (AI/AN/NH) Homeland Areas	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
BLM Administrative Unit Boundary Polygons	3/5	5/5	5/5	4/5	5/5	4/5	2/5	5/5	4/5	Governmental Units, and Administrative and Statistical Boundaries	DOI-BLM



Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
BLM Administrative Unit Office Points	3/5	5/5	5/5	4/5	5/5	4/5	2/5	5/5	4/5	Government al Units, and Administrativ e and Statistical Boundaries	DOI-BLM
Block Group	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Census Block	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Census Bureau Regional Office Boundaries	0/5	2/5	5/5	4/5	5/5	0/5	2/5	0/5	2/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Census Tract	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Combined New England City and Town Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Combined Statistical Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
Consolidated City	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
County Subdivision	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
County and Equivalent	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census
EPA Facility Locations And Regional Boundaries	3/5	4/5	1/5	5/5	5/5	3/5	3/5	0/5	4/5	Government al Units, and Administrativ e and Statistical Boundaries	USEPA
Elementary School Districts	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Government al Units, and Administrativ e and Statistical Boundaries	DOC-Census



Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Estate (US Virgin Islands)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
HUD Entitlement Grantee Jurisdiction	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	HUD
International Boundary United States Mexico Minute 315	2/5	2/5	1/5	5/5	5/5	1/5	2/5	2/5	3/5	Governmental Units, and Administrative and Statistical Boundaries	DOS-IBWC
Metropolitan Division	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Metropolitan Statistical Area/Micropolitan Statistical Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
NECTA Division	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census



Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
National Weather Service County Warning Area Boundaries	5/5	5/5	5/5	5/5	5/5	5/5	5/5	0/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-NOAA
New England City and Town Area	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Place	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Secondary School District	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
State Legislative District (SLD) Lower Chamber	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
State Legislative District (SLD) Upper Chamber	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
State and Equivalent	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Subbarrio (Subminor Civil Division)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Tribal Block Group	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
Tribal Census Tract	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census
US Canadian Boundary	3/5	2/5	1/5	3/5	3/5	2/5	3/5	3/5	3/5	Governmental Units, and Administrative and Statistical Boundaries	DOS-IBC
Unified School Districts	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Governmental Units, and Administrative and Statistical Boundaries	DOC-Census

Imagery Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	5/5	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5		
Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	3/5	5/5	Imagery	NASA
High Resolution Orthoimagery	5/5	5/5	5/5	4/5	5/5	5/5	5/5	5/5	5/5	Imagery	DOI-USGS and DOD-NGA
Landsat 1-5 Multispectral Scanner (1972-1992)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Imagery	DOI-USGS
Landsat 4-5 Thematic Mapper (1982 - present)	5/5	4/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Imagery	DOI-USGS
Landsat 7 Enhanced Thematic Mapper Scan Line Corrector Off (ETM SLC-off) (2003-present)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Imagery	DOI-USGS
Moderate Resolution Imaging Spectroradiometer (MODIS) - Aqua	5/5	5/5	5/5	5/5	5/5	5/5	5/5	3/5	5/5	Imagery	NASA
Moderate Resolution Imaging Spectroradiometer (MODIS) - Terra	5/5	5/5	5/5	5/5	5/5	5/5	5/5	3/5	5/5	Imagery	NASA
NOAA Coastal Mapping Remote Sensing Data	5/5	5/5	5/5	4/5	5/5	4/5	5/5	5/5	5/5	Imagery	DOC-NOAA
The National Agriculture Imagery Program (NAIP) Imagery	5/5	5/5	5/5	4/5	5/5	5/5	5/5	5/5	5/5	Imagery	USDA-FSA

Land Use – Land Cover Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	5/5	4/5	4/5	5/5	5/5	5/5	4/5	5/5	4/5		
Coastal Change Analysis Program (C-CAP) High Resolution Land Cover and Change	4/5	5/5	5/5	4/5	5/5	5/5	5/5	5/5	4/5	Land Use - Land Cover	DOC-NOAA
Coastal Change Analysis Program (C-CAP) Regional Land Cover Data and Change	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Land Use - Land Cover	DOC-NOAA
CropScape - Cropland Data Layer	4/5	5/5	5/5	5/5	5/5	5/5	4/5	3/5	5/5	Land Use - Land Cover	USDA-NASS
LANDFIRE Canopy Fuels	5/5	3/5	1/5	5/5	5/5	5/5	3/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
LANDFIRE Existing Vegetation	5/5	3/5	1/5	5/5	5/5	5/5	3/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
LANDFIRE Historical Fire Regimes	5/5	3/5	1/5	5/5	5/5	5/5	3/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
LANDFIRE Potential Vegetation	5/5	3/5	1/5	5/5	5/5	5/5	3/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
LANDFIRE Surface Fuels	5/5	3/5	1/5	5/5	5/5	5/5	3/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
Monitoring Trends in Burn Severity	4/5	4/5	5/5	4/5	5/5	5/5	4/5	5/5	4/5	Land Use - Land Cover	USDA-USFS
National Land Cover Database (NLCD) Land Cover Collection	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Land Use - Land Cover	DOI-USGS
National Land Cover Database (NLCD) Percent Developed Imperviousness Collection	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Land Use - Land Cover	DOI-USGS
National Land Cover Database (NLCD) Percent Tree Canopy Collection	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Land Use - Land Cover	DOI-USGS
North American Land Change Monitoring System (NALCMS) Collection	5/5	5/5	5/5	5/5	5/5	1/5	4/5	5/5	4/5	Land Use - Land Cover	DOI-USGS
US Forest Service Forest Inventory and Analysis Database	4/5	5/5	5/5	5/5	5/5	5/5	5/5	2/5	5/5	Land Use - Land Cover	USDA-USFS

Real Property Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	5/5	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5		
Assisted Housing - Housing Choice Vouchers By Tract - National Geospatial Data Asset (NGDA)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Assisted Housing - Multifamily Properties - Assisted	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
FHA Insured Single Family Properties	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
FHA Single Family REO Properties For Sale	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Fair Market Rents (Fair Market Rents For The Section 8 Housing Assistance Payments Program)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
HUD Grants Activities	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
HUD Insured Multifamily Properties	4/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Inventory of Owned and Leased Properties	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	GSA
Low Income Housing Tax Credit Properties	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Military Installations, Ranges, and Training Areas	4/5	4/5	5/5	5/5	5/5	5/5	5/5	2/5	5/5	Real Property	DOD-ATL
Public Housing Authorities	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Public Housing Buildings	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
Public Housing Developments	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Real Property	HUD
USGS National Structures Dataset	4/5	5/5	5/5	4/5	5/5	5/5	5/5	0/5	5/5	Real Property	DOI-USGS

Soils Theme

Dataset	General	Define	Inventory Evaluation	Obtain	Access	Maintain	Use Evaluation	Archive	Overall	Theme	Agency
Rollup	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5		
Major Land Resource Area (MLRA)	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Soils	USDA-NRCS
National Cooperative Soil Characterization Database	5/5	4/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Soils	USDA-NRCS
National Coordinated Common Resource Areas (CRA) Geographic Database	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Soils	USDA-NRCS
Soil Survey Geographic Database (SSURGO)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Soils	USDA-NRCS
U.S. General Soil Map (STATSGO2)	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Soils	USDA-NRCS

Transportation Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	3/5	4/5	5/5	4/5	5/5	3/5	4/5	4/5	4/5		
Airports	4/5	5/5	5/5	5/5	5/5	4/5	4/5	5/5	5/5	Transportation	DOT-BTS
Bridges	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Transportation	DOT-BTS
Inland Electronic Navigational Charts (IENC)	5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5	Transportation	DOD-USACE
Intermodal (Freight)	3/5	2/5	5/5	4/5	5/5	0/5	4/5	5/5	3/5	Transportation	DOT-BTS
Intermodal (Passenger)	3/5	3/5	5/5	5/5	5/5	4/5	2/5	0/5	4/5	Transportation	DOT-BTS
Locks	0/5	3/5	5/5	4/5	5/5	3/5	4/5	5/5	3/5	Transportation	DOD-USACE
Ports	0/5	4/5	5/5	5/5	5/5	3/5	4/5	5/5	3/5	Transportation	DOD-USACE
Rail Lines	4/5	4/5	5/5	3/5	5/5	4/5	3/5	5/5	4/5	Transportation	DOT-BTS
Rail Nodes	4/5	4/5	5/5	3/5	5/5	4/5	3/5	5/5	4/5	Transportation	DOT-BTS
Roads (All Roads)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Transportation	DOC-Census
Runways	4/5	5/5	5/5	5/5	5/5	4/5	4/5	5/5	5/5	Transportation	DOT-BTS
Traffic Analysis Zone	5/5	5/5	5/5	5/5	5/5	5/5	5/5	0/5	5/5	Transportation	DOC-Census
Transit (Lines)	2/5	2/5	5/5	2/5	5/5	0/5	4/5	5/5	2/5	Transportation	DOT-BTS
Transit (Stations)	2/5	2/5	5/5	2/5	5/5	0/5	4/5	5/5	2/5	Transportation	DOT-BTS
Waterway Lines	0/5	3/5	5/5	4/5	5/5	3/5	4/5	5/5	3/5	Transportation	DOD-USACE
Waterway Nodes	0/5	3/5	5/5	4/5	5/5	3/5	4/5	5/5	3/5	Transportation	DOD-USACE

Utilities Theme

Dataset	General	Define	Inventory Evaluation	Obtain	Access	Maintain	Use Evaluation	Archive	Overall	Theme	Agency
Rollup	5/5	5/5	5/5	5/5	5/5	5/5	5/5	2/5	4/5		
Outer Continental Shelf Oil and Natural Gas Pipelines - Gulf of Mexico Region NAD 27	5/5	5/5	5/5	5/5	5/5	5/5	5/5	2/5	4/5	Utilities	DOI-BSEE
Outer Continental Shelf Oil and Natural Gas Platforms - Gulf of Mexico Region NAD 27	5/5	5/5	5/5	5/5	5/5	4/5	5/5	2/5	4/5	Utilities	DOI-BSEE

Water – Inland Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup 📶	4/5	4/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5		
National Hydrography Dataset (NHD)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Water - Inland	DOI-USGS
National Inventory of Dams	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Water - Inland	DOD-USACE
National Levee Database, series information for the current inventory of the Nation's levees	5/5	4/5	5/5	4/5	5/5	5/5	5/5	5/5	5/5	Water - Inland	DOD-USACE
National Wetlands Inventory - Wetlands	4/5	4/5	3/5	3/5	5/5	5/5	4/5	5/5	4/5	Water - Inland	DOI-USGS
Watershed Boundary Dataset (WBD)	2/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	4/5	Water - Inland	DOI-USGS

Water – Oceans and Coasts Theme

Dataset	General	Define	Inventory / Evaluate	Obtain	Access	Maintain	Use / Evaluate	Archive	Overall	Theme	Agency
Rollup	4/5	3/5	5/5	5/5	5/5	3/5	4/5	2/5	4/5		
Maritime Limits and Boundaries of the United States of America	3/5	5/5	5/5	5/5	5/5	4/5	4/5	5/5	4/5	Water - Oceans and Coasts	DOC-NOAA
NOAA Coastal Mapping Shoreline Products	5/5	5/5	5/5	4/5	5/5	5/5	5/5	2/5	5/5	Water - Oceans and Coasts	DOC-NOAA
NOAA Electronic Navigational Charts (ENC)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Water - Oceans and Coasts	DOC-NOAA
NOAA Raster Navigational Charts (RNC)	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	Water - Oceans and Coasts	DOC-NOAA
OCSLA Sec. 8(g) Revenue Zone Boundary - Alaska Region NAD83	4/5	2/5	5/5	5/5	5/5	3/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
OCSLA Sec. 8(g) Revenue Zone Boundary - Atlantic Region NAD83	4/5	2/5	5/5	5/5	5/5	3/5	2/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
OCSLA Sec. 8(g) Revenue Zone Boundary - Gulf of Mexico Region NAD27	4/5	2/5	5/5	4/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
OCSLA Sec. 8(g) Revenue Zone Boundary - Pacific Region - West Coast NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
ODIN: Observational Data Interactive Navigation, an interactive map of all CO-OPS active stations	5/5	4/5	5/5	4/5	5/5	5/5	4/5	2/5	5/5	Water - Oceans and Coasts	DOC-NOAA
OCSLA Sec. 8(g) Revenue Zone Boundary - Pacific Region - West Coast NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
ODIN: Observational Data Interactive Navigation, an interactive map of all CO-OPS active stations	5/5	4/5	5/5	4/5	5/5	5/5	4/5	2/5	5/5	Water - Oceans and Coasts	DOC-NOAA
Outer Continental Shelf 200 Nautical Mile Limit - Gulf Of Mexico Region NAD27	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
Outer Continental Shelf Submerged Lands Act Boundary - Alaska Region NAD83	4/5	2/5	1/5	4/5	3/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
Outer Continental Shelf Submerged Lands Act Boundary - Atlantic Region NAD83	3/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
Outer Continental Shelf Submerged Lands Act Boundary - Gulf of Mexico Region NAD27	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
Outer Continental Shelf Submerged Lands Act Boundary - Pacific Region - West Coast NAD 83	4/5	2/5	5/5	5/5	5/5	1/5	3/5	2/5	3/5	Water - Oceans and Coasts	DOI-BOEM
Sea Levels Online: Sea Level Variations of the United States Derived from National Water Level Observation Network Stations	5/5	4/5	5/5	5/5	5/5	4/5	4/5	2/5	4/5	Water - Oceans and Coasts	DOC-NOAA
U.S. Marine Protected Areas Boundaries: MPA Inventory	4/5	4/5	3/5	4/5	5/5	3/5	3/5	3/5	4/5	Water - Oceans and Coasts	DOC-NOAA

Appendix B: Status and Outcomes Summary of NGDA Management Plan Objectives

Major MP Categorized Objectives	Status	A–16 Supplemental Guidance Compliance and Next Steps	Outcome
1. NGDA Dataset Nomination and Removal Process	Completed	Compliance met: Sustain and Improve	<ul style="list-style-type: none"> A vetted and approved process for nominating and retiring NGDA Datasets A comprehensive (desktop based) NGDA database for managing the A–16 NGDA Portfolio
2. NGDA Roles Nomination and Update Process	Completed	Compliance met: Sustain and Improve	<ul style="list-style-type: none"> A vetted and approved process for nominating and updating personnel for A–16 NGDA roles
3. NGDA Baseline	Completed	Compliance met: Sustain inventory	<ul style="list-style-type: none"> A comprehensive list of 177 vetted and approved A–16 NGDA Datasets that meet <i>Supplemental Guidance</i> criteria are now the basis for the NGDA Portfolio inventory
4. NGDA Metadata Registration	Completed	Compliance met: Sustain and expand (web services and data download)	<ul style="list-style-type: none"> 177 NGDA metadata records published through Data.gov and discoverable and accessible through GeoPlatform.gov Standards-based NGDA Metadata Guidelines published Metadata Records include NGDA title and NGDA keywords
5. NGDA Lifecycle Maturity Assessment	Partially Completed	Compliance met: Sustain and Improve	<ul style="list-style-type: none"> 177 NGDA completed baseline LMA LMA Analysis Report In Progress: Theme Maturity Assessment
6. A–16 NGDA Portfolio Reporting	Partially Completed	Compliance partially met: Sustain and Improve; Determine next steps for in-progress actions	<ul style="list-style-type: none"> Completed: <ul style="list-style-type: none"> NGDA Dataset and Theme Summary Reports Theme Strategic Plans In Progress: <ul style="list-style-type: none"> Theme Implementation Plans Summary A–16 NGDA Portfolio Management Reports
7. Theme Communities	Completed	Compliance met: Sustain and Improve	<ul style="list-style-type: none"> Established A–16 Theme Communities and NGDA Collaboration Community on GeoPlatform.gov

8. Geospatial Investment	Partially Completed	Compliance partially met: Determine next steps for in-progress actions	<ul style="list-style-type: none"> • Completed: <ul style="list-style-type: none"> • Developed Geospatial Investment Definitions⁹ • In Progress: <ul style="list-style-type: none"> • Geospatial investment coding process, in addition to the required A-11 reporting.
9. Overall A-16 NGDA Portfolio Management Process	Partially Completed	Compliance partially met: Determine next steps for in-progress actions	<ul style="list-style-type: none"> • Completed: <ul style="list-style-type: none"> • Complied with several components of OMB Circular A-16 <i>Supplemental Guidance</i> • Developed consistent processes, tools, and reports to support A-16 NGDA Portfolio management • In Progress: Summary A-16 NGDA Portfolio management processes including the role of geospatial investment related to A-16 administration and NGDA within the portfolio

⁹ [Geospatial Investment Definitions for Tracking and Reporting Geospatial Investment Costs \(2016\)](#)